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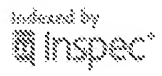
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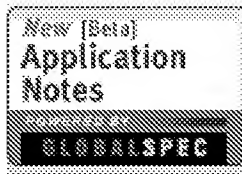
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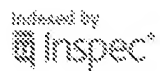
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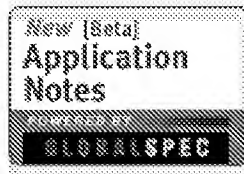
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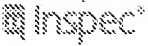
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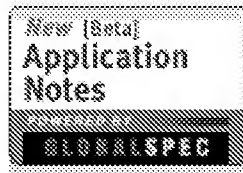
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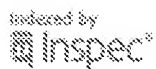
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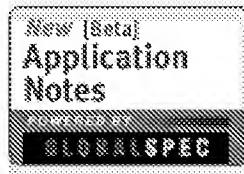
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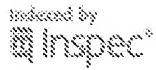
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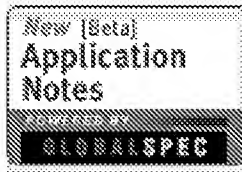
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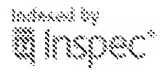
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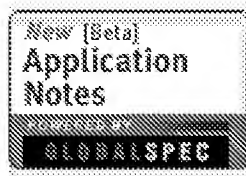
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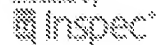
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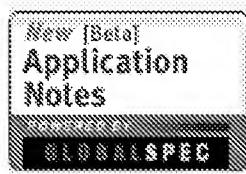
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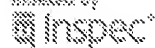
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...receiver. Such a filterbank-based modulation...transformatin which receiver...fast-fourier-transforming module (FFT). For n system filterbank-based, a filtering-module...sender after said modules...further-filtering-module in at least one feedback loop  
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- ☐ 2. [PubTeX output 1999.03.18:1729 \[PDF-718K\]](#)  
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- ☐ 3. [Wireless communication system having error-control coder and](#)  
Giannakis, Georgios B. / Wang, Zhengdao / Zhou, Shengli (University of Minnesota), *UNITED STATES PATENT AND TRAL PATENT*, Jul 2007  
patno:US7251768  
...the OFDM symbol size), IFFT, and cyclic prefix insertion...Depost-FFT data, i.e., the demodulated...real dimension. Since the transform...Gaussian. Although the FFT is an orthogonal transfo achieved by precoders satisfying the full diversity...  
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- ☐ 4. [Redundant filterbank precoders and equalizers part I: unification](#)  
*Signal Processing, IEEE Transactions on* [PDF-608K]  
Oct 2006  
...so far. III. UNIFYING FILTERBANK PRECODERS A number c inverse FFT (IFFT) of the -samples long...each block. Taking th samples...SCAGLIONE et al.: REDUNDANT FILTERBANK PREC PART...  
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[similar results](#)
- ☐ 5. [@InProceedings\[ Garner:icassp98, author = "Philip N Garner and](#)  
Jan 2000  
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- ☐ 6. [Precoded and vector ofdm robust to channel spectral nulls and v](#)  
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...size . The output of the -point FFT of is (3.4) where the formu  
point IFFT in (3.2) and each is an vector...ISI channel , i.e., . C  
and . Consider point IFFT and FFT in the OFDM system. 1366 II  
[http://www.eecis.udel.edu/~hzhang/DataCompression/xia....]  
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-  7. [Space-time doppler coding schemes for time-selective wireless c](#)  
Giannakis, Georgios B. / Ma, Xiaoli (Regents of the Univer  
*UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PA*  
patno:US7280604  
Space-time Doppler (STDO) coding techniques are describe for t  
particular, a STDO coded system is capable of achieving a maxir  
time-selective frequency-flat channels. As demonstrated herein,  
Full text available at patent office. For more in-depth sear  
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-  8. [IEEE SIGNAL PROCESSING MAGAZINE, VOL. 17, NO. 3, MAY 20](#)  
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signature...post-multiplication with N-point FFT and IFFT matri-  
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invertible...  
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inverse FFT (IFFT) of the -samples long...each block. Taking th  
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-  10. [dissertation.dvi \[PDF-2MB\]](#)  
Jul 2005  
...Beno<sup>it</sup> Champagne, mem- bers of my Ph.D. committee, for t  
suggestions during the development phase of my Ph.D. research  
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10526869, filed 03/04/2005

is a national stage entry of PCT/IB03/03415 International Filing Date: 08/04/2003

## Child Data

No Child Data

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Application Number: 10/526869

[Assignments](#)Filing or 371(c) Date: 03/04/2005 [eDan](#)

Effective Date: 03/04/2005

Application Received: 03/04/2005

Pat. Num./Pub. Num: /20050259755

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: IT 020026

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Status Date: 10/18/2007

Confirmation Number: 5437

Examiner Number: 80488 / [TORRES, JUAN](#)Group Art Unit: [2611](#)[IFW Madras](#)

Class/Subclass:

375/350.000

Lost Case: NO

Waiting for Response

Interference Number:

Desc.

Unmatched Petition: NO

[Prior Art Filed](#)[L&R Code](#): Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Oral Hearing: NO

Title of Invention: FLITERBANK MODULATION SYSTEM WITH PRE-EQUALIZATION

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# Inventor Information for 10/526869

Inventor Name	City	State/Country
<u>TOMASIN, STEFANO</u>	VENICE	ITALY
<u>BENVENUTO, NEVIO</u>	MOGLIANO VENETO	ITALY

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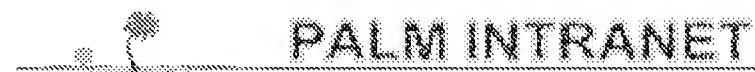
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Last Name = TOMASIN

First Name = STEFANO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10525597</a>	Not Issued	41	02/25/2005	Frequency-domain decision feedback equalizing device and method	TOMASIN, STEFANO
<a href="#">10526869</a>	Not Issued	30	03/04/2005	Fliterbank modulation system with pre-equalization	TOMASIN, STEFANO
<a href="#">10842699</a>	Not Issued	71	05/10/2004	Frequency-domain multi-user access interference cancellation and nonlinear equalization in CDMA receivers	TOMASIN, STEFANO
<a href="#">11192503</a>	Not Issued	71	07/29/2005	Channel estimation for interference cancellation	TOMASIN, STEFANO
<a href="#">11192769</a>	Not Issued	93	07/29/2005	TRAFFIC INTERFERENCE CANCELLATION	TOMASIN, STEFANO
<a href="#">11192787</a>	Not Issued	30	07/29/2005	Adaptation of transmit subchannel gains in a system with interference cancellation	TOMASIN, STEFANO
<a href="#">11193546</a>	Not Issued	41	07/29/2005	Joint interference cancellation of pilot, overhead and traffic channels	TOMASIN, STEFANO
<a href="#">60638666</a>	Not Issued	159	12/23/2004	Traffic interference cancellation at the BTS on a CDMA reverse link	TOMASIN, STEFANO

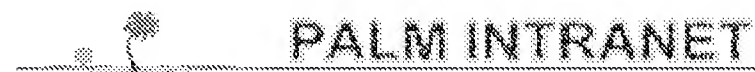
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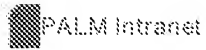
Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">06816578</a>	<a href="#">4677423</a>	150	01/06/1986	ADPCM CODER-DECODER INCLUDING PARTIAL BAND ENERGY TRANSITION DETECTION	BENVENUTO, NEVIO
<a href="#">06927503</a>	<a href="#">4815137</a>	150	11/06/1986	VOICEBAND SIGNAL CLASSIFICATION	BENVENUTO, NEVIO
<a href="#">06927506</a>	<a href="#">4815136</a>	150	11/06/1986	VOICEBAND SIGNAL CLASSIFICATION	BENVENUTO, NEVIO
<a href="#">07271961</a>	Not Issued	166	11/16/1988	CLASSIFIER FOR HIGH SPEED VOICEBAND DATA SIGNALS	BENVENUTO, NEVIO
<a href="#">07534321</a>	<a href="#">4979211</a>	150	06/05/1990	CLASSIFIER FOR HIGH SPEED VOICEBAND DIGITAL DATA MODEM SIGNALS	BENVENUTO, NEVIO
<a href="#">09571727</a>	Not Issued	161	05/15/2000	Multistandard reception apparatus with cascaded multistage-structured numerical filters	BENVENUTO, NEVIO
<a href="#">10525597</a>	Not Issued	41	02/25/2005	Frequency-domain decision feedback equalizing device and method	BENVENUTO, NEVIO
<a href="#">10526869</a>	Not Issued	30	03/04/2005	Fliterbank modulation system with pre-equalization	BENVENUTO, NEVIO
<a href="#">10810620</a>	Not Issued	161	03/29/2004	Method of bit and power loading in OFDM communication systems with modulation and coding adaptation	BENVENUTO, NEVIO
<a href="#">10842699</a>	Not Issued	71	05/10/2004	Frequency-domain multi-user access interference cancellation and nonlinear equalization in CDMA receivers	BENVENUTO, NEVIO

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